

DEC 11 2006

Application Serial No. 10/626,152
Reply to office action of July 11, 2006PATENT
Docket: CU-3309Amendments To The Claims

The listing of claims presented below will replace all prior versions, and listings, of claims in the application.

Listing of claims:

1. (currently amended) A reflective liquid crystal display, comprising:
 - a lower substrate including a reflective electrode and a lower orientation film
 - having an imaginary line for reference;
 - ~~an upper substrate opposed to the lower substrate, the upper substrate including a transparent substrate and an upper orientation film, the being a~~
 - transparent substrate ~~being~~ capable of compensating a phase of $\lambda /4$ with an optical axis of a predetermined angle, the upper orientation film being formed on a surface of the transparent substrate opposed to the lower substrate;
 - a twisted nematic liquid crystal layer interposed between the lower substrate and the upper substrate, with a predetermined phase delay value ($d\Delta n$); and
 - a polarizing plate attached to a outer surface of the upper substrate not opposed to the lower substrate, having a predetermined polarizing axis.
2. (original) A reflective liquid crystal display as claimed in claim 1, wherein the transparent substrate capable of compensating the phase of $\lambda /4$ is a glass substrate for completely circular-polarizing light of 550 nm wavelength:

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3. (original) A reflective liquid crystal display as claimed in claim 1, wherein the transparent substrate capable of compensating the phase of $\lambda/4$ is a glass substrate for changing a phase of light of 550 nm wavelength by $\lambda/2$.
4. (currently amended) A reflective liquid crystal display as claimed in claim 1, wherein the lower orientation film has a orientation angle of $0\text{--}10^\circ$ with respect to the imaginary line for reference a horizontal line.
5. (original) A reflective liquid crystal display as claimed in claim 1, wherein the upper orientation film has a orientation angle of $-50\text{--}54^\circ$ with respect to the imaginary line for reference a horizontal line.
6. (original) A reflective liquid crystal display as claimed in claim 1, wherein the liquid crystal layer has a phase delay value of $0.15\text{--}0.17\text{ }\mu\text{m}$.
7. (original) A reflective liquid crystal display as claimed in claim 1, wherein the liquid crystal layer has a twisted angle of $50\text{--}60^\circ$ with respect to the left direction.
8. (original) A reflective liquid crystal display as claimed in claim 1, wherein the polarizing plate has a polarizing axis with an angle of $112\text{--}120^\circ$ with respect to the imaginary line for reference a horizontal line.
9. (original) A reflective liquid crystal display as claimed in claim 1, wherein the

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reflective electrode has a flexural surface.

10. (original) A reflective liquid crystal display comprising:
 - a lower substrate including a reflective electrode;
 - a lower orientation film having an imaginary line for reference formed on the reflective electrode, and having an angle of 0~10° with respect to the imaginary line for reference a horizontal line;
 - an upper substrate opposed to the lower substrate, being made of transparent substrate capable of compensating a phase of $\lambda/4$ with an optical axis of a predetermined angle;
 - an upper orientation film formed on the upper substrate, having orientation angle of -50~-54° with respect to the imaginary line for reference a horizontal line;
 - a twisted nematic liquid crystal layer interposed between the lower substrate and the upper substrate, with a predetermined phase delay value ($d\Delta n$) of 0.15~0.17 μm , having twist angle of 50~60° with respect to the left direction; and
 - a polarizing plate attached to a outer surface of the upper substrate not opposed to the lower substrate, having a predetermined polarizing axis with an angle of 112~120° with respect to the imaginary line for reference a horizontal line.

11. (original) A reflective liquid crystal display as claimed in claim 10, wherein the transparent substrate capable of compensating the phase of $\lambda/4$ is a glass substrate for completely circular-polarizing light of 550 nm wavelength.

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12. (original) A reflective liquid crystal display as claimed in claim 10, wherein the transparent substrate capable of compensating the phase of $\lambda/4$ is a glass substrate for changing a phase of light of 550 nm wavelength into $\lambda/4$.
13. (original) A reflective liquid crystal display as claimed in claim 10, wherein the reflective electrode has a flexural surface.